UVCI Mass Budget
(kilograms)

<table>
<tr><td rowspan="3">Structure
&
Optics</td><td>Structure</td><td>6</td><td rowspan="3">9</td><td rowspan="8">18</td><td rowspan="9">22</td><td rowspan="10">26</td></tr>
<tr><td>Optics</td><td>2</td></tr>
<tr><td>Mechanisms</td><td>1</td></tr>
<tr><td colspan="2">Detectors (2)</td><td>2</td><td>2</td></tr>
<tr><td rowspan="5">Remote

electronics</td><td>CPU & interface</td><td>2</td><td rowspan="5">7</td></tr>
<tr><td>DC/DC converter</td><td>1</td></tr>
<tr><td>ADC</td><td>1</td></tr>
<tr><td>Data compressor</td><td>1</td></tr>
<tr><td>Motor drive</td><td>2</td></tr>
<tr><td colspan="2">Internal shielding (< if CID used as detectors)</td><td>< 4</td><td>4</td></tr>
<tr><td colspan="2">External shielding (electronic box)</td><td>4</td><td>4</td></tr>
</table>

UVCI Power Budget
(watts)

Operative mode	Standby	Data acquistion	Instrument configuration	Data compression
Detector	-	4	-	-
ADC	-	5	-	-
Motor drive	-	-	5	-
Stepper motor	-	-	4	-
Sub total	**-**	**9**	**9**	**-**
CPU & interface	19	19	19	19
DC/DC converter	5	6	6	6
Data compressor	-	-	-	10
Sub total	**24**	**25**	**25**	**35**
Total	**24**	**34**	**34**	**35**

UVCI Occulter's temperature

	T(0.21 AU)	T(0.5 AU)	ΔT
$\alpha = 0.2$	345.4 °C	127.8 °C	217.6 °C
$\alpha = 0.45$	484.3 °C	217.8 °C	266.5 °C

Electronics components

Board N.	Component Included in the Board	Mass [kg]	Power Consumption [Watt]
1	Analog/Digital Converters (2 units) (ILC Data Device Corporation)	1	5 (1 ADC)
2	Stepper Motor Controller (2 channels) (Hytec Electronics Ltd. VMC series, Etel S.A.)	2	5 (1 channel)
3	DC/DC Converter (ILC Data Device Corporation)	1	8
4	SPLC (Erc32 + 1553 bus interface) (Daimler-Benz Aerospace)	2	12 (CPU module) 7 (1553 interface) 19 (total)
5	Packetising RICE Compressor Board (SAAB-ERICSSON Space, PRCB)	1.5	10